

marantz®

Model PM-75 User Guide

Integrated Amplifier

ENGLISH

WARRANTY

For warranty information, contact your local Marantz distributor.

RETAIN YOUR PURCHASE RECEIPT

Your purchase receipt is your permanent record of a valuable purchase. It should be kept in a safe place to be referred to as necessary for insurance purposes or when corresponding with Marantz.

IMPORTANT

When seeking warranty service, it is the responsibility of the consumer to establish proof and date of purchase. Your purchase receipt or invoice is adequate for such proof.

FOR U.K. ONLY

This undertaking is in addition to a consumer's statutory rights and does not affect those rights in any way.

FRANÇAIS

GARANTIE

Pour des informations sur la garantie, contacter le distributeur local Marantz.

CONSERVER L'ATTESTATION D'ACHAT

L'attestation d'achat est la preuve permanente d'un achat de valeur. La conserver en lieu sûr pour s'y reporter aux fins d'obtention d'une couverture d'assurance ou dans le cadre de correspondances avec Marantz.

IMPORTANT

Pour l'obtention d'un service couvert par la garantie, il incombe au client d'établir la preuve de l'achat et d'en corroborer la date. Le reçu ou la facture constituent des preuves suffisantes.

DEUTSCH

GARANTIE

Bei Garantiefragen wenden Sie sich bitte an Ihren Marantz-Händler.

HEBEN SIE IHRE QUITTUNG GUT AUF

Die Quittung dient Ihnen als bleibende Unterlage für Ihren wertvollen Einkauf. Das Aufbewahren der Quittung ist wichtig, da die darin enthaltenen Angaben für Versicherungszwecke oder bei Korrespondenz mit Marantz angeführt werden müssen.

WICHTIG!

Bei Garantiefragen muß der Kunde eine Kaufunterlage mit Kaufdatum vorlegen. Ihre Quittung oder Rechnung ist als Unterlage ausreichend.

ITALIANO

GARANZIA

Per informazioni sulla garanzia consultate il certificato inserito nell'apparecchio.

CONSERVATE LA RICEVUTA D'ACQUISTO

La ricevuta di acquisto è la vostra documentazione permanente di un

acquisto importante. Tenetela in luogo sicuro dove potete eventualmente consultarla.

IMPORTANTE

Per il servizio in garanzia, spetta al consumatore fornire la prova e l'indicazione della data di acquisto. La ricevuta di acquisto o la fattura rappresentano, a tale scopo, una prova adeguata.

NEDERLANDS

GARANTIE

Voor inlichtingen omtrent garantie dient u zich tot uw plaatselijke Marantz handelaar te wenden.

UW KWITANTIE, KASSABON E.D. BEWAREN

Uw kwitantie, kassabon e.d. vormen uw bewijs van aankoop van een waardevol artikel en dienen op een veilige plaats bewaard te worden voor evt. verwijzing bijv. in verband met verzekering of bij correspondentie met Marantz.

BELANGRIJK

Bij een evt. beroep op de garantie is het de verantwoordelijkheid van de consument een gedateerd bewijs van aankoop te tonen. Uw kassabon of factuur zijn voldoende bewijs.

SVENSKA

GARANTI

För upplysningar angående garanti, vänd dig till din lokala Marantz-distributör.

BEHÅLL DITT INKÖPSKVITTO

Inköpsskvittot är ditt bevis på ett värdefullt inköp. Det bör förvaras säkert för att kunna användas som referens vid garanti-service eller brevväxling med Marantz.

VIKTIGT

Vid ansökan om garantiservice kommer det på konsumentens ansvar att tillhandahålla bevis på inköp och inköpsdatum. Inköpskvitto eller faktura gäller som sådant bevis.

PORTUGUÊS

GARANTIA

Para informações sobre a garantia, contactar o distribuidor Marantz local.

GUARDAR O RECIBO DE COMPRA

O recibo é o registo permanente da compra que fez. Deve ser guardado num local seguro, para ser apresentado em questões relacionadas com o seguro ou para quando tiver de contactar a Marantz.

IMPORTANTE

Quando procurar assistência técnica ao abrigo da garantia, é da responsabilidade do consumidor estabelecer a prova e data de compra. O recibo é prova adequada.

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ENGLISH:	This unit meets the requirements of EEC Recommendation 82/499.
FRANÇAIS:	Cet appareil est conforme aux directives 82/499 de la CEE.
DEUTSCH:	Dieses Gerät entspricht der EWG-Empfehlung 82/499.
ITALIANO:	Questo apparecchio è conforme ai requisiti della direttiva CEE 82/499.
NEDERLANDS:	Dit apparaat voldoet aan de eisen van Aanbeveling EEG 82/499.
SVENSKA:	Enheter möter kraven av EG rekommendation 82/499.
PORUGUÊS:	Esta unidade foi concebida e manufacturada em conformidade com a Recomendação 82/499 da Comunidade Económica Europeia.

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FOREWORD

This section must be read before any connection is made to the mains supply.

WARNINGS

- Do not expose the equipment to rain or moisture.
- Do not remove the cover from the equipment.
- Do not push anything inside the equipment through the ventilation holes.
- Do not handle the mains lead with wet hands.

EQUIPMENT MAINS WORKING SETTING

Your Marantz product has been prepared to comply with the household power and safety requirements that exist in your area. This product has a two position voltage selector (220V/240V) on the rear panel. Check that the mains working voltage setting on the model in your possession matches the mains voltage available in your area.

MAINS PLUG CONNECTIONS FOR EQUIPMENT SOLD IN THE U.K.

The wires in the mains lead are coloured in accordance with the following code:

- brown is the live wire
- blue is the neutral wire.

Because the colours of these wires may not correspond with the terminal identification in your plug, proceed as follows. Connect the:

- brown wire to the terminal marked 'L' or coloured brown or red
- blue wire to the terminal marked 'N' or coloured blue or black.

When using a 13A plug conforming to BS1363, use a 3A fuse. For other plugs, use a 5A or lower rated fuse in the plug, adaptor or at the distribution board.

COPYRIGHT

Recording and playback of any material may require consent. For further information refer to the following:

- Copyright Act 1956
- Dramatic and Musical Performers Act 1958
- Performers Protection Acts 1963 and 1972
- Any subsequent statutory enactments and orders.

ABOUT THIS USER GUIDE

Refer to the Figures on the pages at the rear of this user guide. The callout numbers on the Figures correspond to those found in the text. All references to the connections and controls that are printed in **BOLD** type are as they appear on the PM-75 Integrated Amplifier.

EQUIPMENT FUNCTION

The PM-75 Integrated Amplifier can be used to amplify signals from a variety of sources such as:

- digital and analogue signals of a digital audio tape (DAT) recorder
- a turntable
- digital and analogue signals of a compact disc player (CD)
- a tuner
- a digital signal of a direct broadcast satellite (DBS) tuner
- digital and analogue signals of an auxiliary sound source
- cassette tape recorders.

Sophisticated switching allows the dubbing of an audio signal onto audio cassette recorders and DATs (Digital Audio Tape recorders). A sound direct input allows optimum performance to be extracted from a sound source.

PRECAUTIONS

The following precautions should be taken when operating the equipment.

GENERAL PRECAUTIONS

When siting the equipment ensure that:

- the ventilation holes are not covered
- air is allowed to circulate freely around the equipment
- it is on a vibration free surface
- it will not be exposed to interference from an external source
- it will not be exposed to excessive heat, cold, moisture or dust
- it will not be exposed to direct sunlight
- it will not be exposed to electrostatic discharges.

In addition, never place heavy objects on the equipment.

If a foreign body or water does enter the equipment, contact your nearest dealer or service centre.

Do not pull out the plug by pulling on the mains lead, hold the plug.

It is advisable when leaving the house, or during a thunderstorm, to disconnect the equipment from the mains supply.

EQUIPMENT REAR PANEL CONNECTIONS AND CONTROLS

The following connectors and controls are located on the rear panel of the PM-75 Integrated Amplifier, see Figure 1.

Note that all of the amplifier's:

- right channel inputs are colour-coded red
- left channel inputs are colour-coded white.

① COMPACT DISC PLAYER DIGITAL INPUT TERMINALS (DIGITAL CD) AND OPTICAL/COAXIAL CHANGEOVER SWITCH (OPT/COAX)

These terminals are used to connect to the digital audio output terminal of a CD player. The terminals must be connected as follows:

- CD(OPT) input to the digital optical output terminal of a CD player when using an optical fibre cable
- CD input to the coaxial output terminal of a CD player when using a coaxial cable.

Be sure to set the optical/coaxial changeover switch (OPT/COAX) according to the terminal used.

② DIGITAL TV TUNER/AUXILIARY TERMINAL (DBS)

This terminal is used to connect to the digital audio output terminal of a digital TV tuner. The terminal must be connected as follows:

- DBS terminal to the digital audio output terminal of the digital TV tuner.

③ DIGITAL AUDIO TAPE RECORDER TERMINALS (DIGITAL DAT)

These terminals are used to receive digital audio signals from, and send digital audio signals to, a DAT recorder. The terminals must be connected as follows:

- DAT PLAY terminal to the DAT recorder digital output terminal
- DAT REC terminal to the DAT recorder digital input terminal.

④ TURNTABLE INPUT TERMINALS (PHONO) AND PHONO CARTRIDGE SELECTOR (PHONO SELECTOR)

These terminals are used to connect to the output terminals of a turntable. The terminals must be connected as follows:

- PHONO L terminal to the turntable left channel output terminal

- PHONO R terminal to the turntable right channel output terminal.

Be sure to set the phono cartridge selector (PHONO SELECTOR) according to the type of cartridge (MM or MC) used in the turntable.

⑤ COMPACT DISC PLAYER ANALOGUE INPUT TERMINALS (ANALOGUE CD)

These terminals are used to connect to the analogue audio output terminals of a CD player. The terminals must be connected as follows:

- CD L input to the left channel output terminal of a CD player
- CD R input to the right channel output terminal of a CD player.

⑥ TUNER INPUT TERMINALS (TUNER)

These terminals are used to connect to the audio output terminals of a tuner. The terminals must be connected as follows:

- TUNER L input to the tuner left channel output terminal
- TUNER R input to the tuner right channel output terminal.

⑦ AUXILIARY AUDIO TERMINALS (AUX 1/AUX 2)

These terminals are used to connect to the analogue audio output terminals of an auxiliary audio source. The terminals must be connected as follows:

- AUX 1 L terminal to the left channel analogue audio output terminal of the first auxiliary audio source
- AUX 1 R terminal to the right channel analogue audio output terminal of the first auxiliary audio source
- AUX 2 L terminal to the left channel analogue audio output terminal of the second auxiliary audio source
- AUX 2 R terminal to the right channel analogue audio output terminal of the second auxiliary audio source.

⑧ GROUNDING POST (GND)

The grounding post (GND) should be connected to the earth terminal of a turntable, if fitted, to prevent hum.

⑨ TAPE RECORDER INPUT AND OUTPUT TERMINALS (TAPE 1)

The TAPE 1 input and output terminals allow the audio input and output signals of a tape recorder to be connected to the PM-75. The terminals must be connected as follows:

- PLAY R terminal to the tape recorder right channel audio output terminal

- PLAY L terminal to the tape recorder left channel audio output terminal
- REC R terminal to the tape recorder right channel audio input terminal
- REC L terminal to the tape recorder left channel audio input terminal.

⑩ REMOTE CONTROL BUS TERMINALS (REMOTE CONT. BUS)

Another item of audio equipment with a remote control bus terminal can be connected to these terminals by using a special-purpose cable. The bus OUT terminal is used to send signals to another item of equipment. The bus IN terminal is used to receive signals from another item of equipment.

⑪ DIGITAL AUDIO TAPE RECORDER/TAPE RECORDER INPUT AND OUTPUT TERMINALS (DAT/TAPE 2)

The DAT/TAPE 2 input and output terminals allow the analogue audio input and output signals of a digital audio tape recorder to be connected to the PM-75. The terminals must be connected as follows:

- PLAY R terminal to the right channel analogue audio output of a digital audio tape recorder
- PLAY L terminal to the left channel analogue audio output of a digital audio tape recorder
- REC R terminal to the right channel analogue audio input of a digital audio tape recorder
- REC L terminal to the left channel analogue audio input of a digital audio tape recorder.

As an alternative to a digital audio tape recorder, the terminals of a second tape recorder can be connected to the DAT/TAPE 2 terminals.

⑫ SPEAKER TERMINALS (SPEAKER SYSTEMS)

The PM-75 can handle two sets of 4 to 16 Ohm speakers as follows:

- SYSTEM 1 speakers, which are the front speakers that are normally used
- SYSTEM 2 speakers, which are an alternative pair of front speakers.

For each speaker system, the terminals must be connected as follows:

- speaker terminal R + to the right speaker positive (red) terminal
- speaker terminal R – to the right speaker negative (black) terminal
- speaker terminal L + to the left speaker positive (red) terminal
- speaker terminal L – to the left speaker negative (black) terminal.

A protection circuit, within the PM-75, may come into

operation during a performance if a speaker with an impedance lower than 4 Ohms is used. If both speaker systems are used concurrently, the protection circuit may come into operation during a performance if a speaker with an impedance lower than 8 Ohms is used. Operation of the protection circuit causes a degradation in sound quality.

⑬ POWER SUPPLY CONNECTOR

This connector connects to the mains power lead that is supplied with the PM-75. The lead must be connected to the domestic mains supply.

⑭ AC OUTLETS (AC OUTLETS) (Version E only)

The SWITCHED outlets, which are controlled by the amplifier's power switch, allow additional audio or video equipment to be powered via the amplifier. The total power consumption of the additional equipment must not exceed 200 Watts.

The UNSWITCHED outlet, which is not controlled by the amplifier's power switch, always supplies power to the additional audio or video equipment. The power consumption of the additional equipment must not exceed 200 Watts.

EQUIPMENT FRONT PANEL CONNECTIONS AND CONTROLS

The following connectors and controls are located on the front panel of the PM-75 Integrated Amplifier, see Figure 2.

① POWER ON/OFF SWITCH (POWER)

This switch is pressed once to turn the power on. The switch is pressed again to turn the power off. The light emitting diode (LED), associated with the currently selected function, lights up when the power is switched on and goes out when the power is switched off.

② SAMPLING FREQUENCY INDICATORS

These indicators indicate the sampling frequency of the digital sound source, connected to the rear panel DIGITAL terminals.

③ SELECTOR SWITCH (SELECTOR)

This switch selects the programme source that is used during audio recording and playback. When a source is selected, the LED associated with the selected source is lit. The following sources may be selected:

- PHONO
- AUX 1

- AUX 2
- TAPE 1
- DAT/TAPE 2
- DBS/TUNER
- CD

TAPE 1 and DAT/TAPE 2 are monitor switches.

④ DIGITAL SWITCH (DIGITAL)

To listen to the digital signal sound source, press this switch so that the light emitting diode (LED) lights up and select the digital programme source with the function selector.

⑤ SOURCE SOUND DIRECT SWITCH (SOURCE DIRECT)

This button, when depressed, allows the source inputs to bypass tone and balance circuits in the PM-75 to improve the sound quality. Note that when this button is depressed the:

- tone and balance controls do not function.

⑥ REMOTE SENSOR AND INDICATOR

The remote sensor receives the infrared commands from the remote control unit. When an infrared signal is received from the remote control unit, the indicator above the sensor lights up. The remote control unit must always be pointed directly at the remote sensor.

⑦ VOLUME CONTROL KNOB (VOLUME)

This control knob is used to increase or decrease the volume of the amplifier. The control is rotated clockwise to increase the volume and anti-clockwise to decrease the volume.

⑧ MUTING BUTTON (MUTING)

This button, when pressed, mutes the sound completely and lights the muting LED. When the button is pressed again, the sound level reverts to its former level and the muting indicator LED is extinguished. This feature is convenient when you are changing records or answering the 'phone.

Do not increase the volume control setting while the amplifier is in the muted mode of operation. If this advice is not followed, damage to speakers could result when the amplifier is switched back to the normal mode of operation.

⑨ PUSH OPEN

Press this section to open/close the hinged sub-control panel.

⑩ HEADPHONE SOCKET (PHONES)

This socket allows both stereo sound and monaural sound to be listened to via a pair of headphones.

⑪ SPEAKER SWITCHES (SPEAKERS 1 AND 2)

These two switches control the operation of the speakers. When a switch is depressed, its associated speaker system is switched on. Conversely, when a switch is not depressed, its associated speaker system is switched off. When using headphones, set the switches to their non-depressed positions.

⑫ RECORD SELECTOR SWITCH (REC SELECTOR)

This switch is used to select the source signal that is to be recorded by a tape recorder. The source that is selected can be different from the source that is being listened to. The following recording operations can be selected by using the REC SELECTOR switch:

- from CD player or tuner to TAPE 1 and DAT/TAPE 2
- from the source that is selected with the function selector to TAPE 1 and DAT/TAPE 2
- from TAPE 1 to DAT/TAPE 2
- from DAT/TAPE 2 to TAPE 1.

⑬ TONE CONTROL KNOBS (TREBLE AND BASS)

These control knobs adjust the relative levels of the high (TREBLE) and low (BASS) frequencies produced by the PM-75. Turning the TREBLE control clockwise increases the output of high frequencies. Turning the TREBLE control anti-clockwise decreases the output of high frequencies. Low frequency output is adjusted in an identical manner using the BASS control.

⑭ BALANCE CONTROL KNOB (BALANCE)

This control knob is used to adjust the relative levels of sound from the left and right channels. The further clockwise the control is turned, the louder the right channel will sound compared with the left channel. Conversely, the further anti-clockwise the control is turned, the louder the left channel will sound compared with the right channel.

⑮ LOUDNESS SWITCH (LOUDNESS)

The LOUDNESS switch compensates for human hearing characteristics by boosting the treble and bass response to achieve a more pleasing tonal balance at low volume levels.

USE OF EQUIPMENT FEATURES

This section describes how to operate the equipment features that require sequential operation of the controls. The following operations can be performed on the PM-75 Integrated Amplifier, see Figure 2.

HOW TO LISTEN TO PROGRAMME SOURCE

1. Turn the **VOLUME** control knob fully anti-clockwise.
2. Select the speaker system to be used by means of the **SPEAKERS** selector.
3. Press the **POWER** switch to turn the power on.
4. Select the programme source to be listened to with the function selectors.

To select the digital programme source, press the **DIGITAL** switch so that the light emitting diode (LED) above the switch lights up.

5. Start playback of the programme source.
6. Adjust the volume by means of the **VOLUME** control knob.
7. If required, adjust the tone by means of the **BASS** and **TREBLE** control knobs.
8. If required, press the **SOURCE DIRECT** switch.
9. To reinforce the low and high frequency sound at a low sound level, press the **LOUDNESS** switch.

HOW TO RECORD ON TAPE

It is possible to make a recording in two ways:

- With the **REC SELECTOR** in the **SOURCE** position.

The signals at the **TAPE 1 REC** and **DAT/TAPE 2** terminals are the same as that which can be heard through the speakers.

To record the sound heard from the speakers, set the tape recorder or digital audio tape recorder connected to the **TAPE 1 REC** and/or **DAT/TAPE 2 REC** terminals to the recording mode.

1. Select the programme source you wish to record with the source selector.
2. Start playback of the programme source.
3. Start recording on the tape recorder(s).

- With the **REC SELECTOR** in the **CD** or **TUNER** position.

The signals at the **TAPE 1 REC** and **DAT/TAPE 2** terminals then correspond to the selected **REC SELECTOR** position (**CD** or **TUNER**).

Therefore, recording of the sound (**CD** or **TUNER**) selected with the **REC SELECTOR** is possible while listening to another sound source selected with the source selector.

1. Select the programme source you wish to record with the **REC SELECTOR**.
2. Start playback of the programme source to be recorded.
3. Start recording on the tape recorder(s).
4. Select the programme source to be listened to during recording with the source selector.
5. Start playback of the programme source to be listened to.

DUBBING BETWEEN TAPE RECORDERS

Dubbing between tape recorders and DAT recorders while listening to a different programme source is possible with the PM-75. The dubbing source is determined by the setting of the **REC SELECTOR** switch. The programme source that is being listened to is determined by the setting of the source selector switch.

1. Set the **REC SELECTOR** to the dubbing source you require.
2. Select the programme source you wish to listen to with the source selector.
3. Start playback of the dubbing source.
4. Start recording on the tape recorder.
5. To check what is being recorded, press the **TAPE 1** or **DAT/TAPE 2** button.

CAUTION:

To record digital signal of the DAT, etc., set the **REC SELECTOR** to **SOURCE**, press the **DIGITAL** switch and press the **DAT/TAPE 2**.

REMOTE CONTROL UNIT RC-75PM

This subsection explains the use of the RC-75PM remote control unit, see Figure 3. The remote control unit can be used up to approximately five metres away from the amplifier. The remote control unit must be pointed directly at the amplifier, and with no obstacles between the two. With regular use, the batteries used in the remote control unit will last for approximately one year. Remove the batteries when not using the remote control unit for long periods.

SELECTING SOURCE DIRECT FUNCTION

Press the **SOURCE DIRECT** button to allow the sound input to bypass the tone and balance circuits in the PM-75 to improve the sound quality.

SELECTING FUNCTION

First press the **D/A** button to select the digital or analogue function.

Press the upper **CD**, **DBS** and **DAT** buttons for the digital function that is required. Press the lower **CD**, **TUNER**, **TAPE 1**, **DAT/TAPE 2**, **PHONO**, **AUX 1** and **AUX 2** buttons for the analogue function that is required.

When the **D/A** button is pressed to select the digital or analogue function, the last selected function is automatically selected.

MUTING

To mute the amplifier output, press the **MUTE** button. To return to normal volume, press the **MUTE** button again.

VOLUME

To increase the amplifier volume, press the **VOLUME +** button.

To decrease the amplifier volume, press the **VOLUME -** button.

RECOMMENDATIONS

USE OF CABLES

The video input/output terminals of the PM-75 handle high frequency signals of up to approximately 4MHz. Therefore, it is advisable to use low capacity, low inductance high frequency video or coaxial cables such as 3C-2V. These cables will provide you with stabler and higher definition pictures.

CARE AND MAINTENANCE

This section describes the care and maintenance tasks that must be performed to optimize the operation of your Marantz equipment.

CLEANING OF EQUIPMENT EXTERNAL SURFACES

The exterior finish of your PM-75 will last indefinitely with proper care and cleaning. Never use scouring pads, steel wool, scouring powders or harsh chemical agents (e.g. lye solution), alcohol, thinners, benzine, insecticide or other volatile substances as these will mar the finish of the equipment. Likewise, never use cloths containing chemical substances. If the equipment gets dirty, wipe the external surfaces with a soft, lint-free cloth.

If the equipment becomes heavily soiled:

- dilute some washing up liquid in water, in a ratio of one part detergent to six parts water
- dip a soft, lint-free cloth in the solution and wring the cloth out until it is damp
- wipe the equipment with the damp cloth
- dry the equipment by wiping it with a dry cloth.

FUSE REPLACEMENT

If a fuse blows, unplug the equipment from the mains supply. Replace the fuse only with a fuse of the same type and rating. Replacing the fuse with one of a higher rating or a slower action will not protect the equipment and will invalidate the warranty. If the replacement fuse blows again after the equipment is turned on, the equipment should be taken to an authorized service facility.

REPAIRS

Only the most competent and qualified service technicians should be allowed to service the equipment. The Marantz company and its factory-trained warranty station personnel have the knowledge and special facilities needed for repair and calibration of this precision equipment. After the warranty period has expired, repairs will be performed for a charge if the equipment can be returned to normal operation.

In the event of difficulty, refer to your dealer or write directly to the nearest location to you that is listed on the Marantz Authorised Service Station list. If writing, please include the model and serial number of the equipment together with a full description of what you think is abnormal about the equipment's behaviour.

TROUBLE SHOOTING

GENERAL MALFUNCTION

If the equipment malfunctions, this may be because an electrostatic discharge or mains interference has corrupted the information in the equipment memory circuits. Therefore:

- disconnect the plug from the mains supply
- after waiting at least three minutes, reconnect the plug to the mains supply
- re-attempt to operate the equipment.

PARTICULAR MALFUNCTION

This section describes the simple rectification actions that can be taken in the event of a particular apparent fault condition or malfunction.

CAUTION:

When switching MC/MM switch or OPT/COAX switch on rear panel, volume should be reduced beforehand.

	SYMPTOM	CAUSE	ACTION
	Indicator LEDs do not light.	Power supply lead not connected.	Connect power supply lead.
	Power not switched on.		Switch power on.
	Indicator LEDs light but there is no sound.	Incorrect programme source selected.	Select correct source.
	Volume turned to low level.		Turn VOLUME control clockwise.
	No speaker system selected.		Select speaker system.
	MUTING is on.		Depress MUTING Switch.
	Sound is heard from only one of the speakers.	BALANCE control incorrectly set.	Adjust BALANCE control.
	Speaker or speaker lead faulty.		Switch off the power and interchange speaker leads. If there is still no sound from the same speaker, the speaker or speaker lead is faulty.
	Hum is heard when PHONO input is selected.	Bad PHONO connection.	Remake PHONO connection.
	Incompatible earthing on rear of amplifier.		If the turn-table earth lead is connected disconnect it. If the turn-table earth lead is disconnected connect it.
	Cartridge not fitted correctly.		Refit cartridge.
	Mains lead wiring.		Reverse the live and neutral wires in the power plug.

If the above procedures fail to rectify the malfunction call your local Marantz dealer.

FIGURES

ENGLISH**Figure 1.**

- ① Compact Disc Player Digital Input Terminals and Optical/Coaxial Changeover Switch
- ② Digital TV Tuner/Auxiliary Terminal
- ③ Digital Audio Tape Recorder Terminals
- ④ Turntable Input Terminals and Phono Cartridge Selector
- ⑤ Compact Disc Player Analogue Input Terminals
- ⑥ Tuner Input Terminals
- ⑦ Auxiliary Audio Terminals
- ⑧ Grounding Post
- ⑨ Tape Recorder Input and Output Terminals
- ⑩ Remote Control Bus Terminals
- ⑪ Digital Audio Tape Recorder/Tape Recorder Input and Output Terminals
- ⑫ Speaker Terminals
- ⑬ Power Supply Connector
- ⑭ AC Outlets (Version E Only)

FRANÇAIS**Figure 1.**

- ① Entrées numériques pour lecteur de compact disc et commutateur de sélection de sortie optique/coaxiale
- ② Entrée auxiliaire/récepteur de télévision numérique
- ③ Entrées enregistreur audio numérique
- ④ Entrées platine-disque et sélecteur de cellule phonique
- ⑤ Entrées analogiques lecteur de compact disc
- ⑥ Entrées syntoniseur
- ⑦ Entrées audio auxiliaires
- ⑧ Barrette de mise à la terre
- ⑨ Entrées et sorties enregistreur
- ⑩ Entrée et sortie du bus de la télécommande
- ⑪ Entrées et sorties enregistreur/enregistreur audio numérique
- ⑫ Bornes d'enceintes
- ⑬ Connecteur d'alimentation
- ⑭ Prises CA (Version E seulement)

ENGLISH**FRANÇAIS****Figure 2.**

- ① Power On/Off Switch
- ② Sampling Frequency Indicators
- ③ Selector Switch
- ④ Digital Switch
- ⑤ Source Sound Direct Switch
- ⑥ Remote Sensor and Indicator
- ⑦ Volume Control Knob
- ⑧ Muting Button
- ⑨ Push Open
- ⑩ Headphone Socket
- ⑪ Speaker Switches
- ⑫ Record Selector Switch
- ⑬ Tone Control Knobs
- ⑭ Balance Control Knob
- ⑮ Loudness Switch

Figure 2.

- ① Commutateur d'alimentation Marche/Arrêt
- ② Voyants de fréquence d'échantillonnage
- ③ Commutateur de sélection
- ④ Touche numérique
- ⑤ Touche de reproduction directe du son source
- ⑥ Voyant et récepteur de la télécommande
- ⑦ Bouton de réglage du volume
- ⑧ Touche de sourdine
- ⑨ Indication enfoncer pour ouvrir
- ⑩ Prise du casque d'écoute
- ⑪ Commutateurs des enceintes
- ⑫ Commutateur de sélection d'enregistrement
- ⑬ Boutons de réglage des tonalités aigues et basses
- ⑭ Bouton de réglage de l'équilibrage des enceintes
- ⑮ Touche de réglage de l'intensité sonore

Figure 3.

- ① Digital/Analogue Select Button
- ② Digital Function Select Button
- ③ Analogue Function Select Button
- ④ Volume Control Button
- ⑤ Source Direct Button
- ⑥ Muting Button

Figure 3.

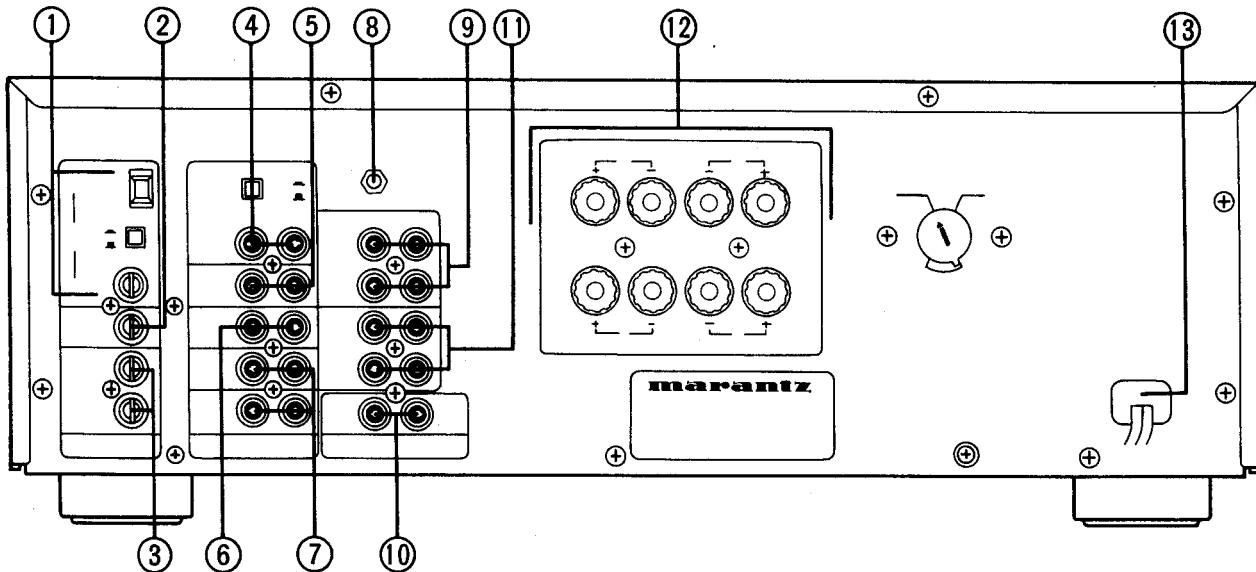
- ① Touche de sélection de fonction analogique/numérique
- ② Touche de sélection de la fonction numérique
- ③ Touche de sélection de la fonction analogique
- ④ Touche de réglage du volume
- ⑤ Touche de reproduction directe du son source
- ⑥ Touche de reproduction en sourdine

PORUTGUÊS

Figura 1.

- ① Terminais de Entrada Digital do Leitor de Discos Compactos e Comutador de Cabo de Fibra Óptica/Coaxial**
- ② Terminal Auxiliar/Sintonizador de TV Digital**
- ③ Terminais do Gravador de Cassettes Digital**
- ④ Terminais de Entrada do Gira-Discos e Seleccionador da Agulha Phono**
- ⑤ Terminais de Entrada de Análogo do Leitor de Discos Compactos**
- ⑥ Terminais de Entrada do Sintonizador**
- ⑦ Terminais de Audio Auxiliares**
- ⑧ Ligação à Terra**
- ⑨ Terminais de Entrada e Saída do Gravador**
- ⑩ Terminais Bus de Controle Remoto**
- ⑪ Terminais de Entrada e Saída do Gravador de Cassettes Digital/Gravador.**
- ⑫ Terminais das Colunas**
- ⑬ Tomada de Corrente**
- ⑭ Pontos de Saída AC (Apenas Versão E)**

N and T versions



E version

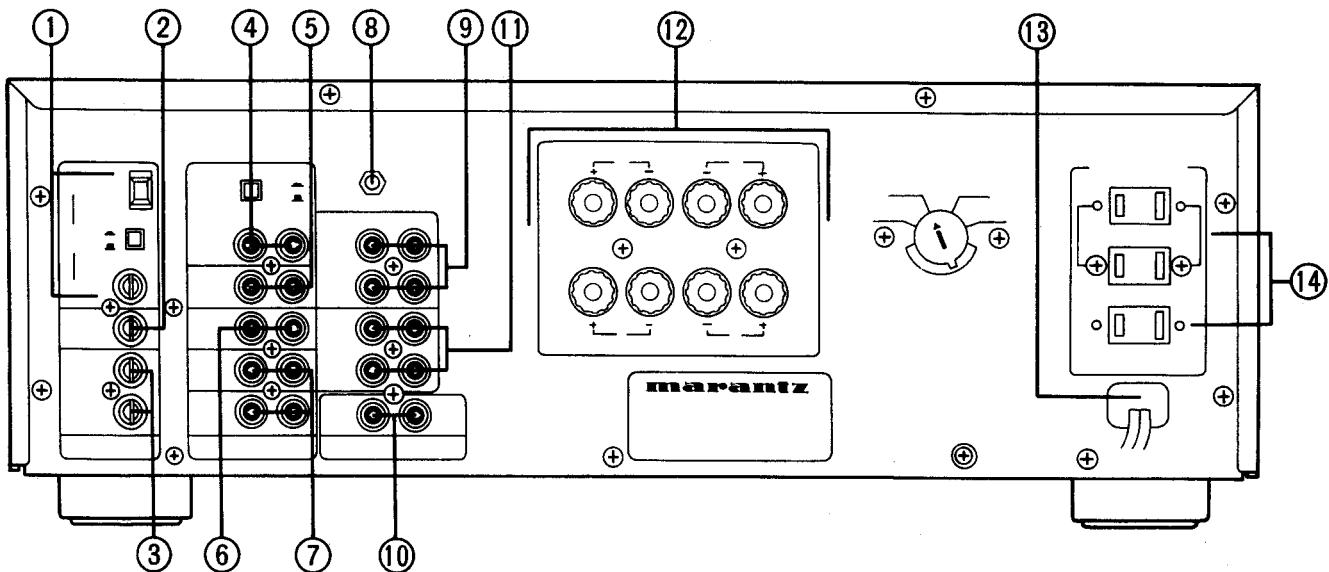


Figure 1

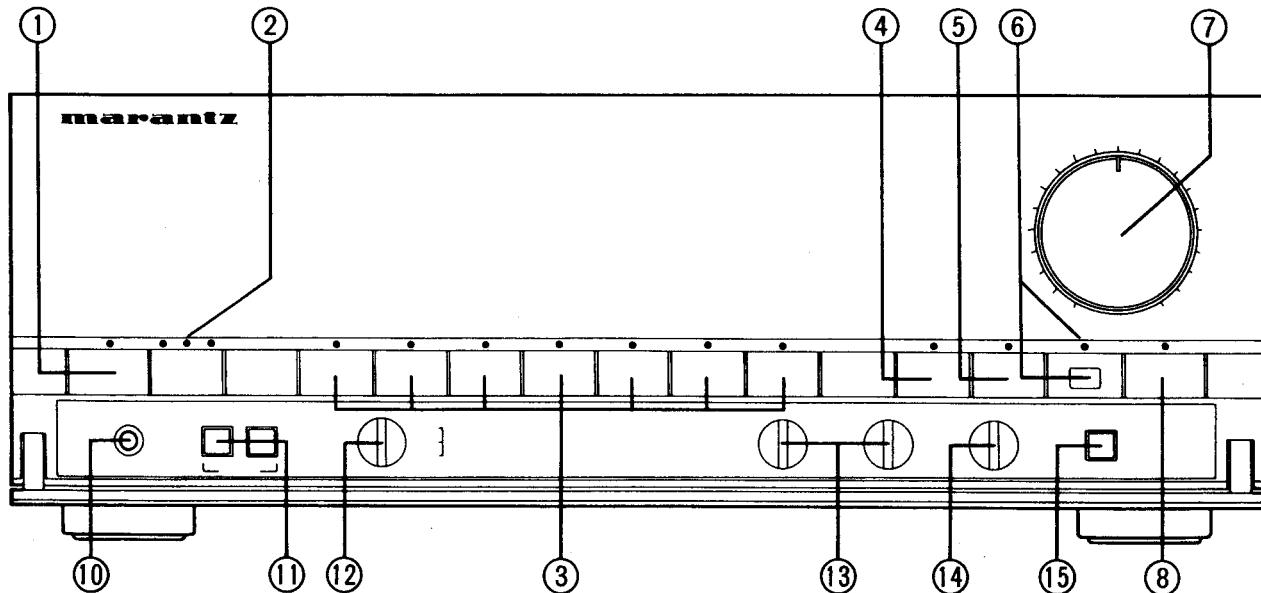


Figure 2

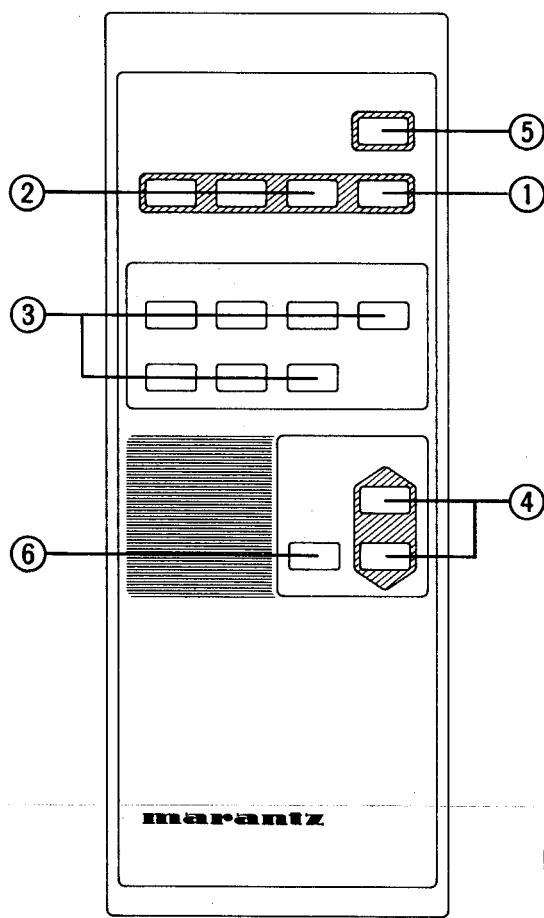


Figure 3